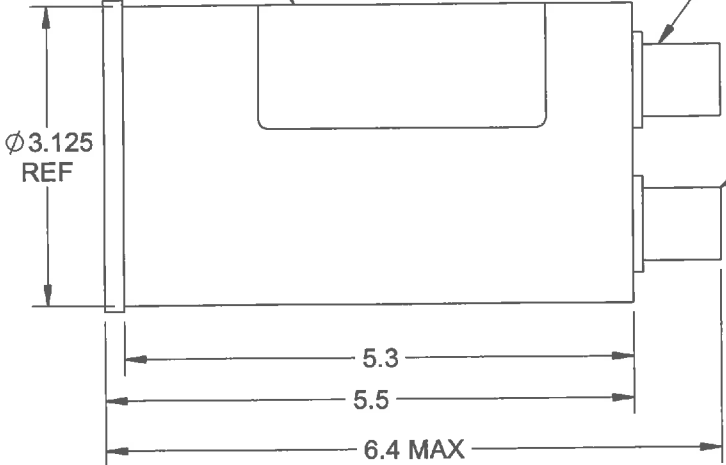


SPECIFICATION CONTROL DRAWING

IDENTIFICATION LABEL
REF



CONNECTOR (REF)
MATES WITH D38999/26WA35SN

- 1 FADEC FAIL WARNING ANNUNCIATOR
- 2 ENGINE OUT WARNING ANNUNCIATOR
- 3 OVERSPEED EVENT WARNING ANNUNCIATOR
- 4 ENGINE START ADVISORY ANNUNCIATOR
- 5 START FAULT ADVISORY ANNUNCIATOR
- 6 FADEC MAINTENANCE ADVISORY ANNUNCIATOR

CONNECTOR (REF)
MATES WITH D38999/26WB35SN

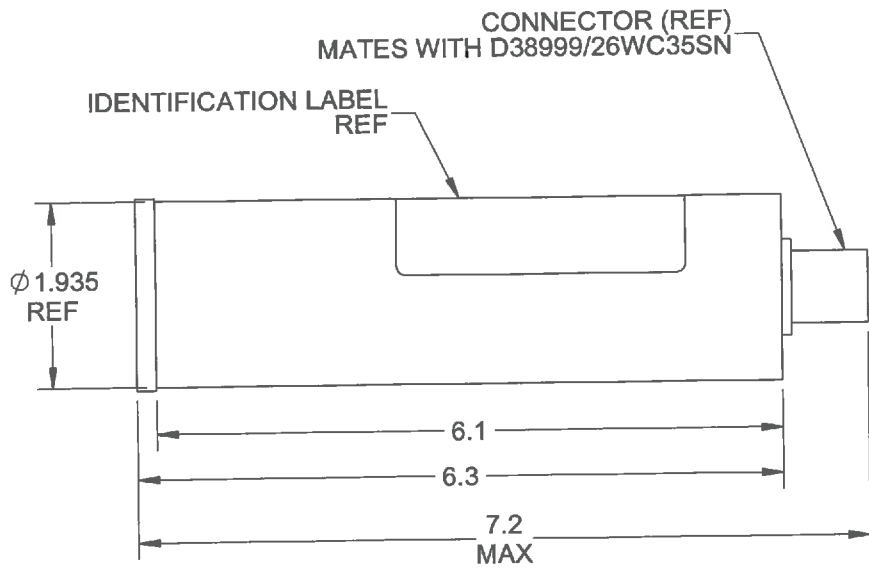
- 1 28VDC POWER
- 2 0-5 VDC BACKLIGHT POWER
- 3 ARINC 429 CHANNEL A LINE A
- 4 ARINC 429 CHANNEL A LINE B
- 5 FADEC MANUAL CAUTION ANNUNCIATOR
- 6 FADEC DEGRADED CAUTION ANNUNCIATOR
- 7 CASE GROUND
- 8 POWER GROUND
- 9 BACKLIGHT GROUND
- 10 ARINC 429 CHANNEL B LINE A
- 11 ARINC 429 CHANNEL B LINE B
- 12 BUILT IN TEST
- 13 SIGNAL SHIELD



EAGLE P/N	E4400-1
VENDOR	DIAMOND J
VENDOR P/N	64250-007
DESCRIPTION	3" DUAL TACHOMETER FOR POWER TURBINE SPEED AND ROTOR SPEED USES ARINC 429 DATA, WORD 346 (NP/N2) AND WORD 40 (NR) 100% NP = 38,198 RPM 100% NR = 6,317 RPM
SOFTWARE APPROVAL	RTCA/DO-178B LEVEL C
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(U)XXXXXXZZAZZRLXXC3XXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
NP MARKINGS	YELLOW ARC 95% TO 99% GREEN ARC 99% TO 101% YELLOW ARC 101% TO 115% RED RADIAL 115% RED TRIANGLE 115%
NR MARKINGS	RED RADIAL 85% GREEN ARC 85% TO 107% RED RADIAL 107%
CASE APPROVAL	MS33639
NOTES	1) COLORED ARCS SHALL OVERLAY GRADUATIONS 2) RED COLORED FEATURES SHALL OVERLAY ALL OTHER FEATURES 3) NO TEXT WITHIN 0.325 RADIUS FROM CENTER
WEIGHT	1.7 LBS

A	NEW ISSUE	BY	12.12.03
REV.	DESCRIPTION	BY	DATE
DESIGN		EAGLE COPTERS LTD CALGARY, ALBERTA, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 1 OF 10
APPROVED		TITLE	SCALE
DE APPR.		ENGINE INSTRUMENTS	NTS
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SPECIFICATION CONTROL DRAWING



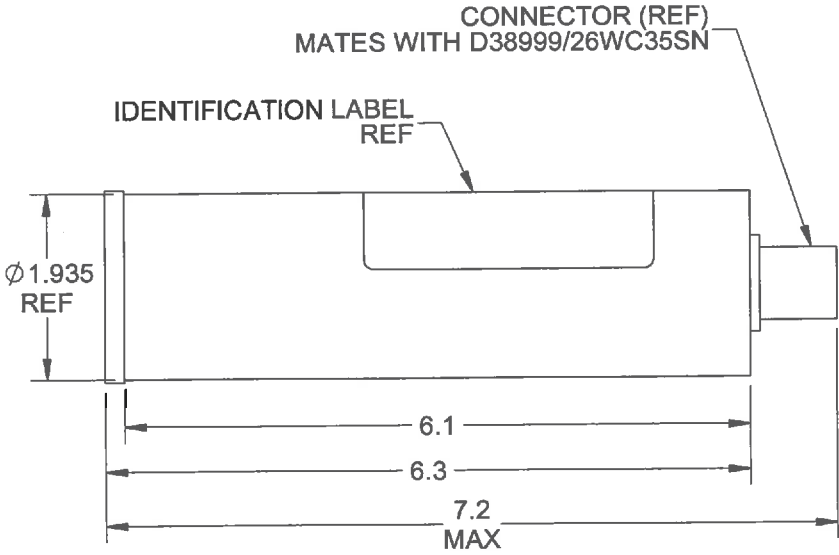
28VDC POWER	1
0-5VDC BACKLIGHT POWER	2
ARINC 429 CHANNEL A LINE A	3
ARINC 429 CHANNEL A LINE B	4
N/C	5
N/C	6
CASE GROUND	7
POWER GROUND	8
BACKLIGHT GROUND	9
ARINC 429 CHANNEL B LINE A	10
ARINC 429 CHANNEL B LINE B	11
N/C	12
N/C	13
BUILT IN TEST	14
N/C	15
N/C	16
FADEC CHANNEL FAIL CAUTION ANNUNCIATOR	17
RS-232 GROUND	18
N/C	19
SIGNAL SHIELD	20
FADEC FAIL WARNING ANNUNCIATOR (DUPLICATE)	21
N/C	22



EAGLE P/N	E4400-3
VENDOR	DIAMOND J
VENDOR P/N	64050-007
DESCRIPTION	2" TACHOMETER FOR GAS PRODUCER RPM USES ARINC 429 DATA, WORD 344 100% = 47,870 RPM
GAUGE APPROVAL	TSO-C49b
SOFTWARE APPROVAL	RTCA/DO-178A LEVEL II
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(BMNPS)XXXXXXXXZZAZZUZKXXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
MARKINGS	GREEN ARC 0% TO 101.1% YELLOW ARC 101.1% TO 103.6% RED RADIAL 103.6% RED TRIANGLE 104.4%
CASE APPROVAL	MS33639
NOTES	1) COLORED ARCS SHALL OVERLAY GRADUATIONS 2) RED COLORED FEATURES SHALL OVERLAY ALL OTHER FEATURES 3) NO TEXT WITHIN 0.275 RADIUS FROM CENTER 4) SILKSCREEN ON BEVELED SIDE OF DIAL FACE BLANK
CYCLE COUNTING	WHEN WORD 314 CHANNEL A OR CHANNEL B (ACTIVE CHANNEL) =< 5%, DISPLAY WORD 161
WEIGHT	0.9 LBS

DESIGN		EAGLE COPTERS LTD	
DRAWN		CALGARY, ALBERTA, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 2 OF 10
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SPECIFICATION CONTROL DRAWING



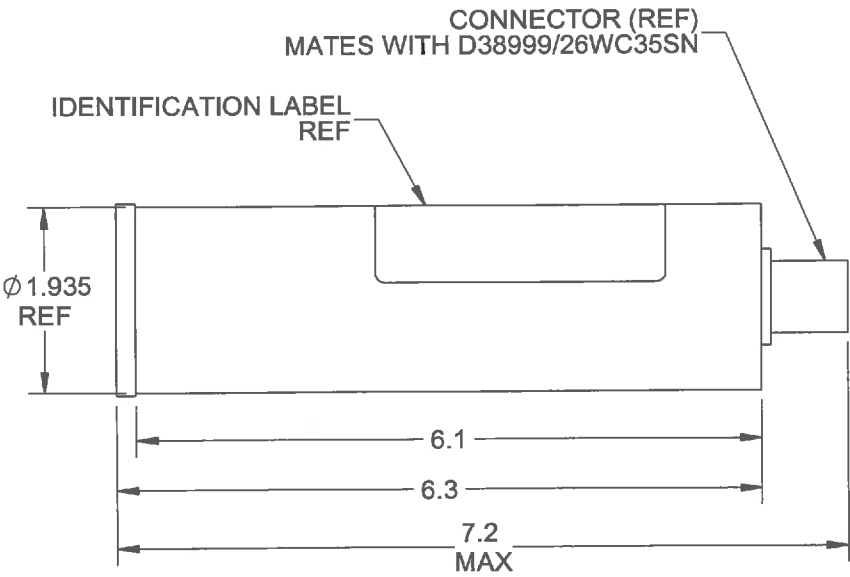
28VDC POWER	1
0-5VDC BACKLIGHT POWER	2
ARINC 429 CHANNEL A LINE A	3
ARINC 429 CHANNEL A LINE B	4
N/C	5
N/C	6
CASE GROUND	7
POWER GROUND	8
BACKLIGHT GROUND	9
ARINC 429 CHANNEL B LINE A	10
ARINC 429 CHANNEL B LINE B	11
N/C	12
N/C	13
BUILT IN TEST	14
N/C	15
N/C	16
OVERSPEED EVENT WARNING ANNUNCIATOR (DUPLICATE)	17
RS-232 GROUND	18
N/C	19
SIGNAL SHIELD	20
ENGINE OUT WARNING ANNUNCIATOR (DUPLICATE)	21
N/C	22



EAGLE P/N	E4400-5
VENDOR	DIAMOND J
VENDOR P/N	61050-007
DESCRIPTION	2" GAUGE FOR MEASURED GAS TEMPERATURE USES ARINC 429 DATA, WORD 345
GAUGE APPROVAL	TSO-C43b
SOFTWARE APPROVAL	RTCA/DO-178A LEVEL II
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(BMNPS)XXXXXXZZAZZUZKXXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
MARKINGS	GREEN ARC 0°C TO 900°C YELLOW ARC 900°C TO 958°C RED RADIAL 958°C RED TRIANGLE 977°C
CASE APPROVAL	MS33639
NOTES	1) COLORED ARCS SHALL OVERLAY GRADUATIONS 2) RED COLORED FEATURES SHALL OVERLAY ALL OTHER FEATURES 3) NO TEXT WITHIN 0.275 RADIUS FROM CENTER 4) SILKSCREEN ON BEVELED SIDE OF DIAL FACE BLANK
CYCLE COUNTING	WHEN NG WORD 344 CHANNEL A OR CHANNEL B (ACTIVE CHANNEL) =< 5%, DISPLAY LAST FLIGHT POWER TURBINE CYCLES WORD 162
WEIGHT	0.9 LBS

DESIGN		EAGLE COPTERS LTD CALGARY, ALBERTA, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 3 OF 10
APPROVED		TITLE	SCALE
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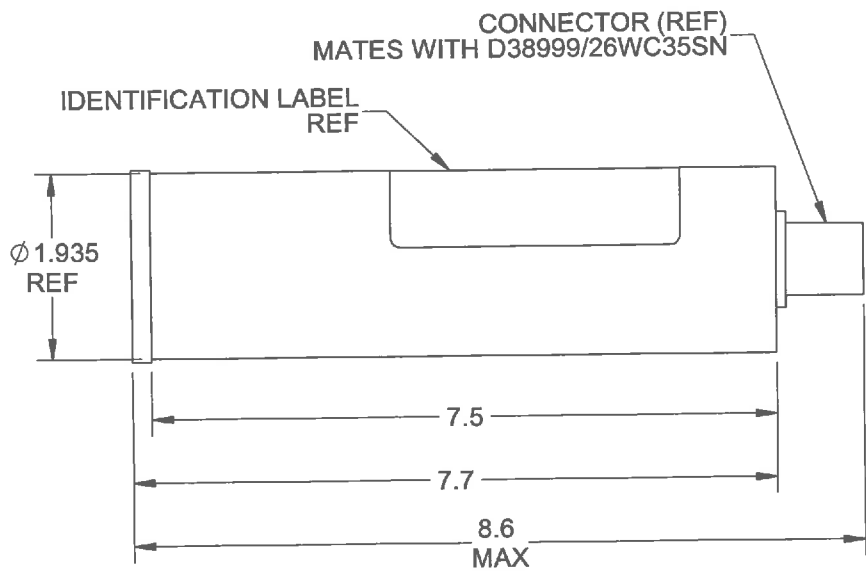
28VDC POWER	1
0-5VDC BACKLIGHT POWER	2
PRESSURE TRANSDUCER EXCITATION (+)	3
PRESSURE SIGNAL (+)	4
28 VDC POWER	5
CURRENT SHUNT (+)	6
CASE GROUND	7
POWER GROUND	8
BACKLIGHT GROUND	9
PRESSURE TRANSDUCER EXCITATION (-)	10
PRESSURE SIGNAL (-)	11
POWER GROUND	12
CURRENT SHUNT (-)	13
BUILT IN TEST	14
N/C	15
RS-232 TXD	16
RS-232 RXD	17
RS-232 GROUND	18
N/C	19
SIGNAL SHIELD	20
EXCEEDANCE-ERROR ANNUNCIATOR	21
N/C	22



EAGLE P/N	E4400-7
VENDOR	DIAMOND J
VENDOR P/N	65150-007
DESCRIPTION	2" GAUGE FOR ENGINE TORQUE USES ARINC 429 DATA, WORD 336 100% TORQUE = 560 FT-LB
GAUGE APPROVAL	TSO-C47
SOFTWARE APPROVAL	RTCA/DO-178B LEVEL C
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(BMNPS)XXXXXXZZAZZUZKXXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
MARKINGS	GREEN ARC 0% TO 93.5% YELLOW ARC 93.5% TO 100% RED RADIAL 100%
CASE APPROVAL	MS33639
NOTES	1) COLORED ARCS SHALL OVERLAY GRADUATIONS 2) RED COLORED FEATURES SHALL OVERLAY ALL OTHER FEATURES 3) NO TEXT WITHIN 0.275 RADIUS FROM CENTER 4) SILKSCREEN ON BEVELED SIDE OF DIAL FACE BLANK
ENGINE INCIDENT	MONITOR WORD 270 CHANNEL A OR CHANNEL B (ACTIVE CHANNEL) , BIT 17 AFTER NG WORD 334 CHANNEL A OR CHANNEL B (ACTIVE CHANNEL) =< 5% AND FLASH "EI" IF BIT 17 = 1 UNTIL POWER IS REMOVED OR NG > 5%
TRANSIENT TORQUE LIMITS	GREATER THAN 93.5% FOR MORE THAN 300 SECONDS OR GREATER THAN 100% FOR 5 SECONDS OR GREATER THAN 105%
WEIGHT	0.9 LBS

DESIGN		EAGLE COPTERS LTD	
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MFG. APPR.		E4400	SHEET 4 OF 10
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SPECIFICATION CONTROL DRAWING



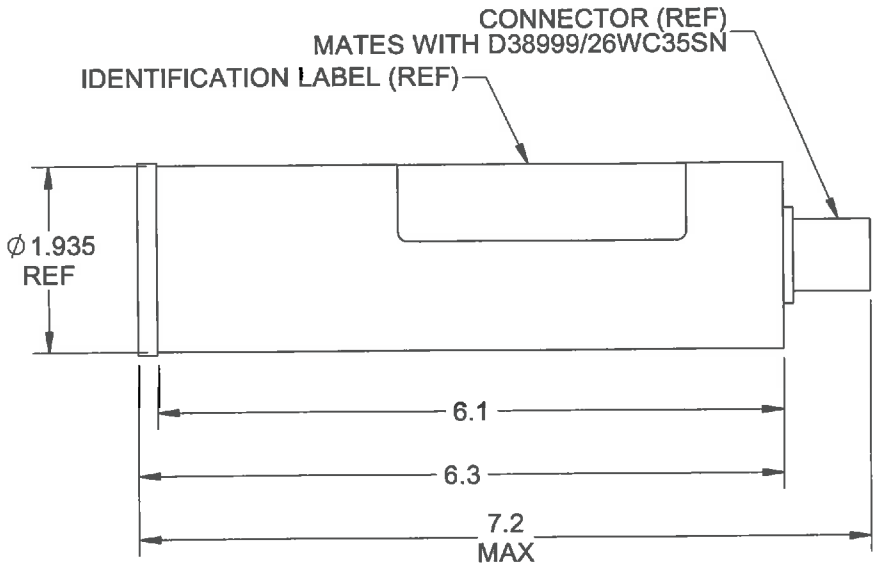
28VDC POWER	1
0-5VDC BACKLIGHT POWER	2
N/C	3
QUANTITY SIGNAL (+)	4
N/C	5
N/C	6
CASE GROUND	7
POWER GROUND	8
BACKLIGHT GROUND	9
N/C	10
QUANTITY SIGNAL (-)	11
N/C	12
N/C	13
BUILT IN TEST	14
N/C	15
RS-232 TXD	16
RS-232 RXD	17
RS-232 GROUND	18
FAULT DETECTED	19
SIGNAL SHIELD	20
EXCEEDANCE ERROR ANNUNCIATOR	21
N/C	22



EAGLE P/N	E4400-9
VENDOR	DIAMOND J
VENDOR P/N	65020-007
DESCRIPTION	2" DUAL GAUGE FOR ENGINE OIL TEMPERATURE IN DEGREES C AND ENGINE OIL PRESSURE USES ANALOG DATA
GAUGE APPROVAL	TSO-C47b AND TSO-C43b
SOFTWARE APPROVAL	RTCA/DO-178A LEVEL II
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(BMNPS)XXXXXXZZAZZUZKXXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
ENGINE OIL TEMPERATURE MARKINGS	YELLOW ARC -23°C TO 10°C GREEN ARC 10°C TO 110°C RED RADIAL 110°C
ENGINE OIL PRESSURE MARKINGS	RED TRIANGLE 0 PSI RED RADIAL 20 PSI YELLOW ARC 20 PSI TO 52 PSI THIN GREEN ARC 52 PSI TO 90 PSI GREEN ARC 90 PSI TO 100 PSI YELLOW ARC 100 PSI TO 120 PSI RED RADIAL 120 PSI RED TRIANGLE 200 PSI
SIGNAL CHARACTERISTICS	MIL-T-7990
CASE APPROVAL	MS33639
NOTES	1) COLORED ARCS SHALL OVERLAY GRADUATIONS 2) RED COLORED FEATURES SHALL OVERLAY ALL OTHER FEATURES 3) NO TEXT WITHIN 0.325 RADIUS FROM CENTER
WEIGHT	1.2 LBS

DESIGN		EAGLE COPTERS LTD	
DRAWN		CALGARY, ALBERTA, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 5 OF 10
APPROVED		TITLE	SCALE
DE APPR.		ENGINE INSTRUMENTS	NTS
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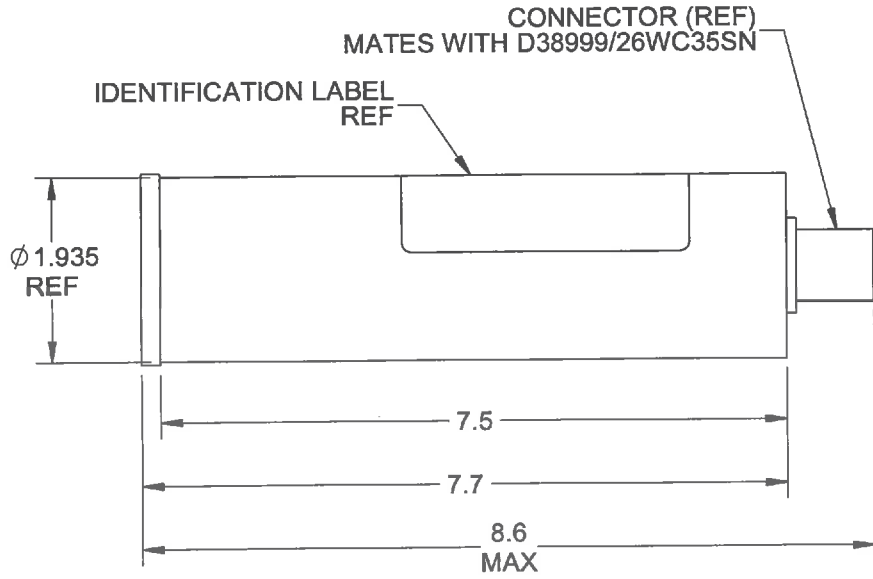
28VDC POWER	1
0-5VDC BACKLIGHT POWER	2
N/C	3
QUANTITY SIGNAL (+)	4
N/C	5
N/C	6
CASE GROUND	7
POWER GROUND	8
BACKLIGHT GROUND	9
N/C	10
QUANTITY SIGNAL (-)	11
N/C	12
N/C	13
BUILT IN TEST	14
N/C	15
RS-232 TXD	16
RS-232 RXD	17
RS-232 GROUND	18
FAULT DETECTED	19
SIGNAL SHIELD	20
EXCEEDANCE ERROR ANNUNCIATOR	21
N/C	22



EAGLE P/N	E4400-11
VENDOR	DIAMOND J
VENDOR P/N	62500-007
DESCRIPTION	2" DUAL GAUGE FOR FUEL QUANTITY INDICATION
GAUGE APPROVAL	TSO-C55a
SOFTWARE APPROVAL	RTCA/DO-178B LEVEL C
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(BMNPS)XXXXXXXXZZAZUZKXXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
CASE APPROVAL	MS33639
WEIGHT	0.9 LBS

DESIGN		EAGLE COPTERS LTD CALGARY, ALBERTA, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 6 OF 10
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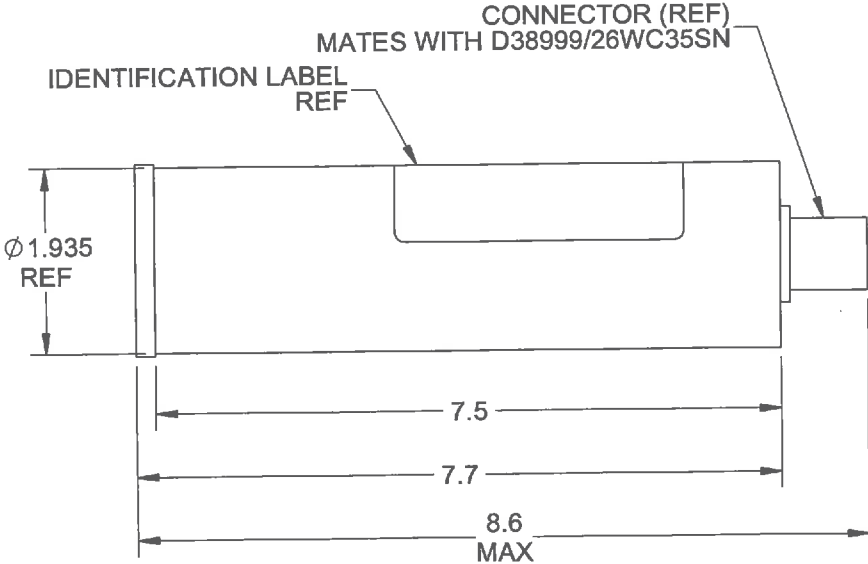
28VDC POWER	1
0-5VDC BACKLIGHT POWER	2
PRESSURE TRANSDUCER EXCITATION (+)	3
PRESSURE SIGNAL (+)	4
28 VDC POWER	5
CURRENT SHUNT (+)	6
CASE GROUND	7
POWER GROUND	8
BACKLIGHT GROUND	9
PRESSURE TRANSDUCER EXCITATION (-)	10
PRESSURE SIGNAL (-)	11
POWER GROUND	12
CURRENT SHUNT (-)	13
BUILT IN TEST	14
N/C	15
RS-232 TXD	16
RS-232 RXD	17
RS-232 GROUND	18
N/C	19
SIGNAL SHIELD	20
EXCEEDANCE-ERROR ANNUNCIATOR	21
N/C	22



EAGLE P/N	E4400-13
VENDOR	DIAMOND J
VENDOR P/N	63130-007
DESCRIPTION	2" DUAL GAUGE FOR FUEL PRESSURE AND AMMETER
GAUGE APPROVAL	TSO-C47a
SOFTWARE APPROVAL	RTCA/DO-178B LEVEL C
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(BMNPS)XXXXXXZZAZZUZKXXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
FUEL PRESSURE MARKINGS	RED RADIAL 8 PSI GREEN ARC 8 PSI TO 25 PSI RED RADIAL 25 PSI
AMMETER MARKINGS	GREEN ARC 0 A TO 180 A RED/WHITE STRIPED RADIAL 170 A RED RADIAL 180 A RED TRIANGLE 300 A RED DOT 400 A
CASE APPROVAL	MS33639
NOTES	1) COLORED ARCS SHALL OVERLAY GRADUATIONS 2) RED COLORED FEATURES SHALL OVERLAY ALL OTHER FEATURES 3) NO TEXT WITHIN 0.325 RADIUS FROM CENTER
WEIGHT	1.2 LBS

DESIGN		EAGLE COPTERS LTD	
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 7 OF 10
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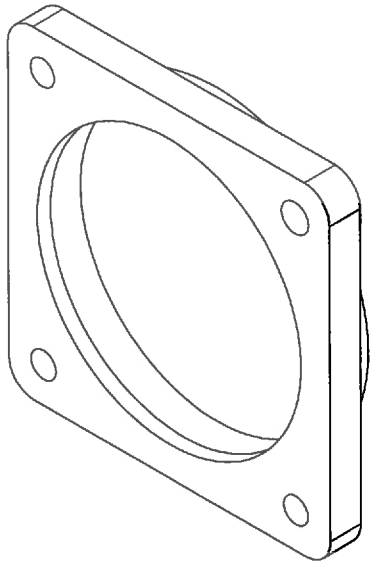
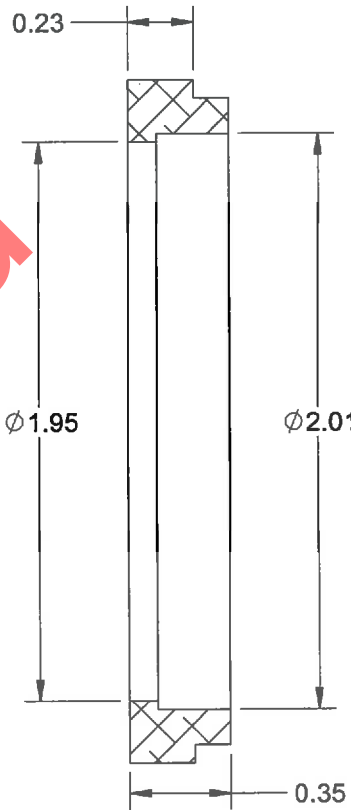
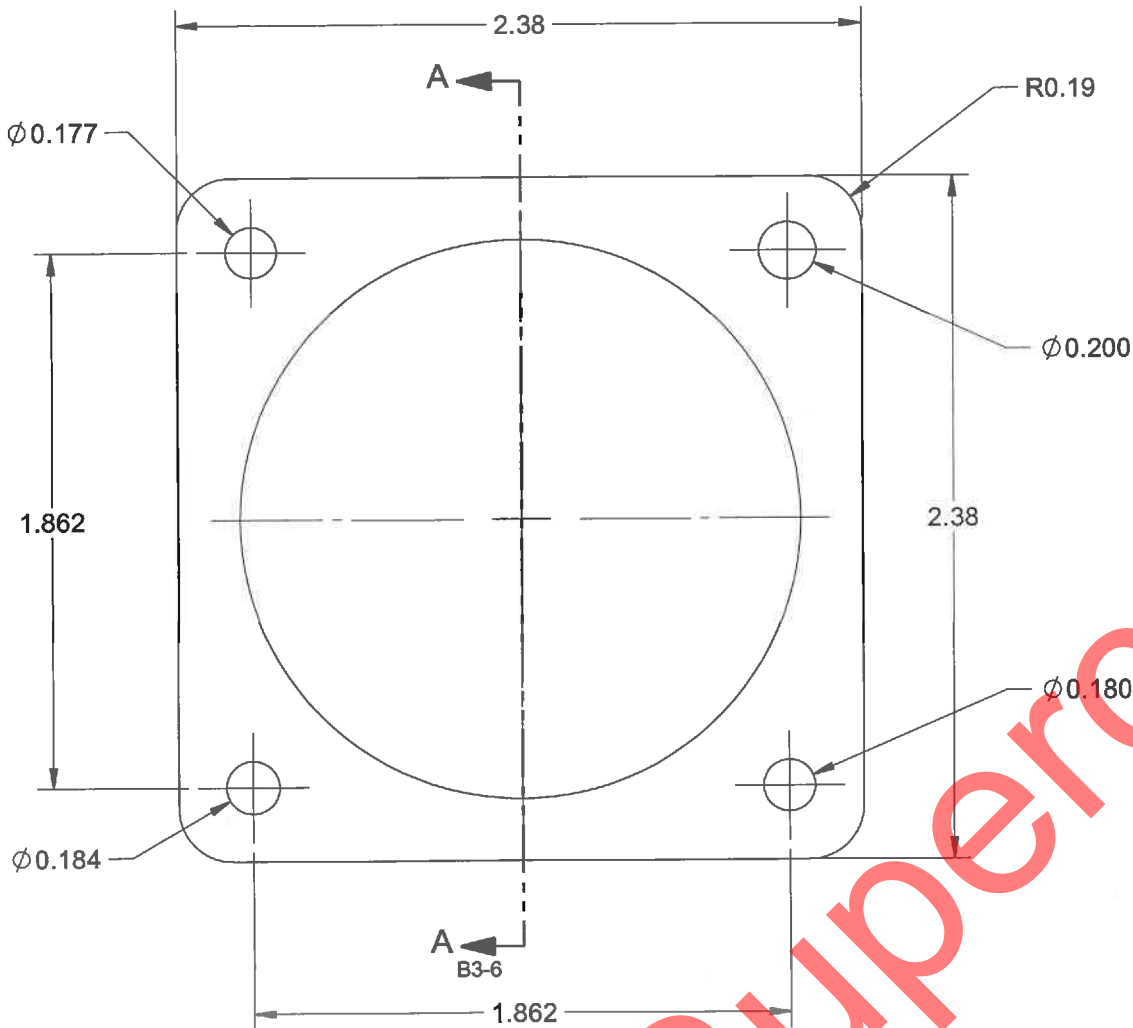
28VDC POWER	1
0-5VDC BACKLIGHT POWER	2
PRESSURE TRANSDUCER EXCITATION (+)	3
PRESSURE SIGNAL (+)	4
28 VDC POWER	5
TEMPERATURE SIGNAL (+)	6
CASE GROUND	7
POWER GROUND	8
BACKLIGHT GROUND	9
PRESSURE TRANSDUCER EXCITATION (-)	10
PRESSURE SIGNAL (-)	11
POWER GROUND	12
TEMPERATURE SIGNAL (-)	13
BUILT IN TEST	14
N/C	15
RS-232 TXD	16
RS-232 RXD	17
RS-232 GROUND	18
N/C	19
SIGNAL SHIELD	20
EXCEEDANCE-ERROR ANNUNCIATOR	21
N/C	22



EAGLE P/N	E4400-15
VENDOR	DIAMOND J
VENDOR P/N	65030-007
DESCRIPTION	2" DUAL GAUGE FOR TRANSMISSION OIL PRESSURE AND TEMPERATURE
GAUGE APPROVAL	TSO-C47 AND TSO-C43b
SOFTWARE APPROVAL	RTCA/DO-178A LEVEL II
ENVIRONMENTAL APPROVAL	RTCA/DO-160C [C4]-BB(BMNPS)XXXXXXXXZZAZZUZKXXX
POWER REQUIREMENTS	4W, 0.14A @ 28VDC EXCLUDING BACKLIGHTS
OPERATING TEMPERATURE	-40°C TO +70°C
STORAGE TEMPERATURE	-55°C TO +80°C
TRANSMISSION OIL PRESSURE MARKINGS	RED RADIAL 30 PSI GREEN ARC 40 PSI TO 70 PSI RED RADIAL 70 PSI
TRANSMISSION OIL TEMPERATURE MARKINGS	GREEN ARC 15°C TO 110°C RED RADIAL 110°C
CASE APPROVAL	MS33639
NOTES	1) COLORED ARCS SHALL OVERLAY GRADUATIONS 2) RED COLORED FEATURES SHALL OVERLAY ALL OTHER FEATURES 3) NO TEXT WITHIN 0.325 RADIUS FROM CENTER
WEIGHT	1.2 LBS

DESIGN		EAGLE COPTERS LTD	
DRAWN		CALGARY, ALBERTA, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 8 OF 10
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DE APPR.		ENGINE INSTRUMENTS	NTS
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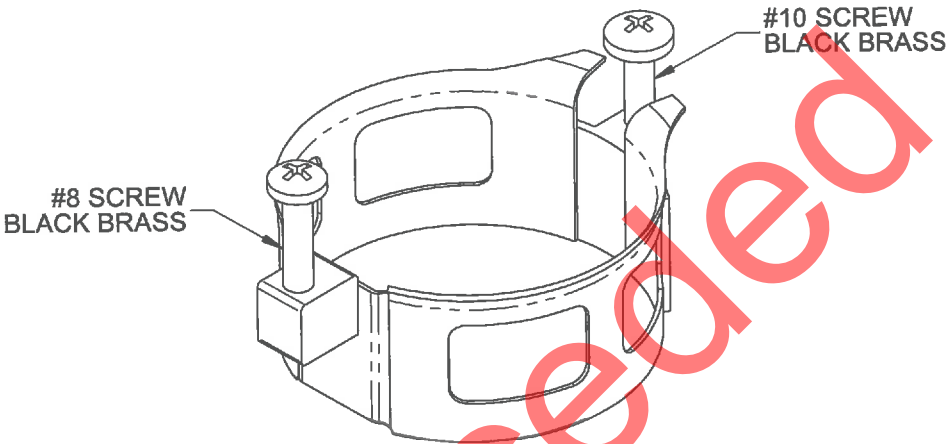


EAGLE PART NUMBER	DESCRIPTION	VENDOR	VENDOR PART NUMBER	WEIGHT
E4400-17	BEZEL ADAPTER	DIAMOND J	48502-001	0.07 LBS







NOTES:
1) BEZEL ADAPTER ALLOWS MS33639-2 INSTRUMENT CASE TO BE MOUNTED IN A POSITION PREVIOUSLY OCCUPIED IN THE INSTRUMENT PANEL BY A 2" MS33638 GAUGE

DESIGN		EAGLE COPTERS LTD CALGARY, ALBERTA, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		E4400	SHEET 9 OF 10
APPROVED		TITLE	SCALE
DE APPR.		ENGINE INSTRUMENTS	NTS
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SPECIFICATION CONTROL DRAWING



EAGLE PART NUMBER	DESCRIPTION	VENDOR	VENDOR PART NUMBER	WEIGHT
E4400-19	INSTRUMENT CLAMP	DIAMOND J	47500-001	0.03 LBS

DESIGN		EAGLE COPTERS LTD CALGARY, ALBERTA, CANADA	
DRAWN			
CHECKED		DRAWING NO. E4400	REV. A SHEET 10 OF 10
MFG. APPR.		TITLE ENGINE INSTRUMENTS	SCALE NTS
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DE APPR.			
DATE	12.12.03		